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11 UNITED STATES DISTRICT COURT
12 FOR THE NORTHERN DISTRICT OF CALIFORNIA
13 SAN FRANCISCO DIVISION

14 3COM CORPORATION,
15
16 Plaintiff-Counterdefendant,
17 v.
18 REALTEK SEMICONDUCTOR
CORPORATION,
19 Defendant-Counterclaim Plaintiff.

Case No. C 03-02177-VZW

NOTICE OF MOTION AND MOTION
FOR SUMMARY JUDGMENT OF
INFRINGEMENT OF U.S. PATENT
NOS. 5,434,872; 5,732,094; 5,307,459;
AND 6,526,446

Date: December 20, 2007
Time: 2:30 p.m.
Courtroom: 6

REDACTED VERSION

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23 AN UNREDACTED VERSION OF THIS DOCUMENT HAS BEEN FILED UNDER SEAL
24 WITH THE COURT
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NOTICE OF MOTION

TO DEFENDANT HEREIN AND ITS ATTORNEYS OF RECORD:

PLEASE TAKE NOTICE that on December 20, 2007 at 2:30 p.m. in Courtroom 6 of the above-entitled Court, or as soon thereafter as counsel may be heard on this matter, Plaintiff 3Com Corporation ("3Com") will move pursuant to Federal Rule of Civil Procedure 56 for an order granting summary judgment that Defendant Realtek Semiconductor Corporation ("Realtek") infringes at least claim 21 of U.S. Patent No. 5,434,872 (the "'872 Patent"); claim 28 of U.S. Patent No. 5,732,094 (the "'094 Patent"); claim 1 of U.S. Patent No. 5,307,459 (the "'459 Patent"); and claim 26 of U.S. Patent No. 6,526,446 (the "'446 Patent") (collectively, the "Claims at Issue").

This motion is based on this Notice of Motion, the accompanying Memorandum of Points and Authorities in Support of 3Com's Motion for Summary Judgment of Infringement of U.S. Patent Nos. 5,434,872; 5,732,094; 5,307,459; and 6,526,446, the accompanying Declarations of Dr. Michael Mitzenmacher ("Mitzenmacher Decl.") and Victor Cole ("Cole Decl."), and any such additional matter as may be presented to the Court in conjunction with the hearing on this motion.

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1 *Water Techs. v. Calco, Ltd.*, 850 F.2d 660 (Fed. Cir. 1988) 8

2 **FEDERAL STATUTES**

3 35 U.S.C. § 112 17

4 35 U.S.C. § 271(a) (2004) 8

5 35 U.S.C. § 271(b) (2004) 8

6 35 U.S.C. § 271(c) (2004) 8

7 **FEDERAL RULES**

8 FED. R. CIV. P. 36 10

9 FED. R. CIV. P. 56 7

10 **OTHER SOURCES**

11 3COM Corp., Annual Report (Form 10-K), at 13, 15 (July 31, 2007), available at
 12 <http://www.sec.gov/Archives/edgar/data/738076/000095013507004539/b659553ce10vk.htm> 1

13 Marguerite Reardon, *3Com Lowers Revenue Forecast*, CNET News.Com, at
 14 http://news.com.com/2102-1037_3-5346936.html (Sept. 3, 2004) 1

15 Press Release, 3Com Corporation, 3Com increases performance and ease-of-use for
 16 market-leading EtherLink III family of adapters, *available at*
http://findarticles.com/p/articles/mi_m0EIN/is_1994_Nov_7/ai_15903033
 (Nov. 7, 1994) 3

PRELIMINARY STATEMENT

Founded in 1979, 3Com is the acknowledged pioneer in Ethernet network adapter products. Its extensive investments in research and development and the resulting innovations it has introduced to the field are reflected in the hundreds of patents it has been awarded.¹ Among those are the patents at issue in this case. For many years, 3Com also enjoyed a leading market position in the sale of network interface cards incorporating its cutting-edge technology. In particular, one of its first Fast Ethernet products embodying the patents in suit was “far and away the largest-selling Ethernet adapter that had been released for that and for the next several years.” Cole Decl. Ex. 1 (Sherer Tr.) at 90. Over time, however, its market share began to erode as it faced increased competition, much of it from lower-cost manufacturers.²

Starting in 1997, Realtek embarked on an aggressive strategy to enter the market for Fast Ethernet network interface controllers to be included in products that would compete with 3Com’s. See Cole Decl. Ex. 2 (1998 Realtek Annual Report) at 11 (RT070660). Based in Taiwan, Realtek chose to infringe 3Com’s patents and now holds, by its own admission, more than 40% of the worldwide market. Cole Decl. Ex. 3 (Tsai, B. Tr.) at 116–17. After 3Com sought to protect its valuable intellectual property rights by commencing this action against one of Realtek’s customers in the District of Delaware in January 2003, Realtek intervened. 3Com then asserted the patents at issue directly against Realtek and its products.

Since this case was originally filed, and following extensive and often difficult discovery, 3Com has streamlined its claims against Realtek for trial.³ 3Com now asserts that Realtek is infringing ten separate claims of five 3Com patents. Of these, we have selected the four Claims at Issue in this motion as, we respectfully submit, ripe for summary adjudication

¹ See 3COM Corp., Annual Report (Form 10-K), at 13, 15 (July 31, 2007), *available at* <http://www.sec.gov/Archives/edgar/data/738076/000095013507004539/b659553ce10vk.htm>.

² See Marguerite Reardon, *3Com Lowers Revenue Forecast*, CNET News.Com, at http://news.com.com/2102-1037_3-5346936.html (Sept. 3, 2004).

³ 3Com did not include any claim of U.S. Patent Nos. 6,115,776 and 6,327,625 in its Final Infringement Contentions. 3Com also subsequently informed Realtek that it is no longer asserting infringement of claims 1 and 39 of the ‘094 Patent.

1 concerning the issue of Realtek's infringement. The parties do not dispute the material facts
 2 concerning how the accused products operate with respect to the Claims at Issue. To the contrary,
 3 Realtek has admitted that its products include or are capable of practicing all the elements of two
 4 of these claims, and most of the elements of the other two. The only disputes concerning the
 5 Claims at Issue are about the conclusions to be drawn from those facts or, at bottom, new and
 6 idiosyncratic claim construction arguments that Realtek has belatedly raised purely for purposes of
 7 trying to avoid infringement. We respectfully submit that the Court may readily resolve any such
 8 issues in the course of deciding this motion and, as we demonstrate below, should enter summary
 9 judgment of infringement in 3Com's favor with respect to each of the Claims at Issue.

10 STATEMENT OF FACTS

11 **I. The Claims at Issue**

12 **A. The '872 Patent**

13 United States Patent No. 5,434,872, entitled "Apparatus for automatic initiation of
 14 data transmission," was filed on July 28, 1992 and issued to 3Com on July 18, 1995. Cole Decl.
 15 Ex. 4 ('872 Patent). The '872 Patent relates to Ethernet network interface adapters, a type of
 16 device enabling communication between a computer and an Ethernet network. *See* Mitzenmacher
 17 Decl. ¶ 21.

18 As the Court is aware,⁴ a typical Ethernet network adapter includes two ports (one
 19 to connect to the host computer and another to connect to the network), a buffer memory, and a
 20 control logic. *Id.* at ¶ 16. Commonly referred to as a "Network Interface Controller" or NIC, the
 21 adapter may be mounted on a card (a "NIC card") that is inserted into an expansion slot located on
 22 the motherboard of a desktop computer, or integrated into the motherboard itself. *Id.* The adapter
 23 communicates with the host processor over a bus, such as a PCI bus, and with the network over a
 24 twisted pair cable. *Id.* Ethernet NICs transmit data by using frames of lengths varying from 64 to
 25 1518 bytes, with each frame having a header containing the addresses of the source and
 26 destination stations on the network, a payload of data, and a trailer containing error correction

27 ⁴ *See* Dkt. No. 375 (Claim Construction Order) at 6, 19.

1 data. *Id.* The minimum and maximum lengths of an Ethernet frame or “packet” are determined
 2 by the Ethernet network protocol. *See id.* at ¶¶ 15, 29.

3 Claim 21 of the ‘872 Patent is an apparatus claim, which discloses and claims an
 4 Ethernet network adapter that initiates early transmission of data frames. *Id.* at ¶¶ 21–22.
 5 According to the ‘872 Patent, a network interface adapter may begin transmitting a frame to an
 6 Ethernet network as soon as a threshold portion of the frame is transferred from the host computer
 7 into the adapter’s memory. *Id.* While the adapter transmits the threshold portion of the frame to
 8 the network, the rest of the frame is transferred to the adapter and becomes available for
 9 transmission. *Id.* Because the adapter begins transmission to the network before the transfer of the
 10 full packet into its memory, this technology is also referred to as the “Early Transmit” feature. *Id.*

11 By using parallel or concurrent processing in this manner, the Early Transmit
 12 technology may increase transmission speed and optimize performance of Ethernet network
 13 adapters by as much as 150%. *Id.* at ¶ 23. Importantly, the Early Transmit technology improves
 14 performance without requiring a faster and more expensive host or NIC processor. Network users
 15 may therefore enjoy a significant increase in performance simply by using network adapters
 16 implementing this innovative technology. *Id.* at ¶ 24. These advantages made the Early Transmit
 17 technology a core feature of 3Com Ethernet adapters. *Id.* Indeed, 3Com considered these
 18 advantages sufficiently important and distinctive to register the trademark PARALLEL TASKING
 19 for use with its NIC products. Cole Decl. Ex. 5 (PARALLEL TASKING Registration). This
 20 trademark was prominently displayed on those NIC products. *See* Appendix A hereto. A press
 21 release described the technology at the time of its introduction as “a unique process that speeds
 22 data transfers . . . resulting in the highest overall adapter efficiency and performance.”⁵

23 **B. The ‘094 Patent**

24 United States Patent No. 5,732,094, entitled “Method for automatic initiation of
 25 data transmission,” was filed on September 16, 1996 and issued to 3Com on March 24, 1998.

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 27 ⁵ Press Release, 3Com Corporation, 3Com increases performance and ease-of-use for
 28 market-leading EtherLink III family of adapters, *available at*
http://findarticles.com/p/articles/mi_m0EIN/is_1994_Nov_7/ai_15903033 (Nov. 7, 1994).

1 Cole Decl. Ex. 6 ('094 Patent). It claims priority to an earlier application filed on July 28, 1992.
 2 Like the '872 Patent, the '094 Patent relates to data transmission in Ethernet networks.
 3 Mitzenmacher Decl. ¶ 26. For example, the '094 Patent discloses and claims methods to initiate
 4 early transmission of data, which increase transmission speed and optimize the performance of
 5 network adapters. *Id.* Claim 28 of the '094 Patent is a method claim that essentially covers the
 6 use of the network interface adapter apparatus described in Claim 21 of the '872 Patent. *Id.*

7 C. The '459 Patent

8 United States Patent No. 5,307,459, entitled "Network adapter with host indication
 9 optimization," was filed on July 28, 1992 and issued to 3Com on April 26, 1994. Cole Decl. Ex. 7
 10 ('459 Patent). The '459 Patent also relates to data transmission systems for use in Ethernet
 11 network interfaces. Mitzenmacher Decl. ¶ 15. For example, the '459 Patent describes and claims
 12 Ethernet network adapters that generate early indication signals to reduce what is known as
 13 "interrupt latency." *Id.* at ¶ 17.

14 When an Ethernet network adapter transfers data frames between an Ethernet
 15 network and a host computer system, it typically notifies the host processor of the completion of a
 16 data frame transfer by generating an interrupt signal to the host processor. *Id.* Before the host
 17 processor can interrupt its activity to process the data transfer, however, it must first save its
 18 current environment or system parameters. *Id.* Thus, in the prior art, an interrupt latency (or time
 19 lag) would occur between the time that the Ethernet network adapter has completed a data transfer
 20 and the time when the host processor is able to respond to the interrupt signal, to the detriment of
 21 transmission speed and system performance. *Id.* The degradation in performance due to interrupt
 22 latency can be further compounded by various other conditions that may occur in normal operation
 23 of the system, such as the transfer of multiple data frames. *Id.*

24 To reduce interrupt latency, the inventors of the '459 Patent suggested generating
 25 various types of signals prior to the actual completion of the transfer of a data frame to or from a
 26 buffer memory. *Id.* at ¶¶ 18–19. These include an early indication signal and an early interrupt
 27 signal. *Id.* at ¶ 19; *see also* Cole Decl. Ex. 7 ('459 Patent), Abstract, col. 3–4, claims 5, 12, 13, 17,
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19, 21. Claim 1 of the '459 Patent discloses and claims an apparatus including threshold logic or circuitry for generating an early indication signal after a determination that a certain amount of a data frame has been transferred. *Id.* at 6:10–13; Fig. 2; Mitzenmacher Decl. ¶ 19. The early indication signal may then cause an early interrupt signal to be generated to the host processor during the transfer of that data frame, reducing the period of latency that would otherwise occur after the transfer is complete. *Id.* at 6:13–15; Fig. 2; Mitzenmacher Decl. ¶ 19. Because the adapter generates an interrupt signal to the host processor before the complete packet is transferred, the '459 patented technology is also referred to as the “Early Interrupt” feature. Mitzenmacher Decl. ¶ 18. The Early Interrupt technology provides many of the same advantages in performance as does the Early Transmit technology, and also has the benefit of doing so without the need for a faster and more expensive host or NIC processor. *Id.*

12 D. The '446 Patent

13 United States Patent No. 6,526,446, entitled “Hardware only transmission control
14 protocol segmentation for a high performance network interface card,” was filed on April 27, 1999
15 and issued to 3Com on February 25, 2003. Cole Decl. Ex. 8 ('446 Patent). Like the other 3Com
16 patents asserted in this case, the '446 Patent relates to data transmission in Ethernet network
17 adapters. Mitzenmacher Decl. ¶ 28. In particular, Claim 26 of the '446 Patent discloses and
18 claims a hardware-based method for segmenting large data frames into multiple pieces or
19 “segments” that can be transmitted using a network protocol. *Id.* at ¶ 67. As the Court previously
20 recognized, the maximum size of a frame to be transmitted may be limited (Dkt. No. 375 (Claim
21 Construction Order) at 19); in the case of the Ethernet protocol, that maximum size is 1518 bytes.
22 Mitzenmacher Decl. ¶ 29. The '446 Patent teaches an improved method for segmenting large
23 frames into Ethernet-sized segments in which a network controller first receives a descriptor signal
24 from the host indicating where the data to be transmitted is stored in the host memory. *Id.* at ¶ 30.
25 The adapter then uses segmentation logic to generate a “frame segment descriptor,” which the
26 Court has previously construed to mean “a descriptor identifying where the corresponding
27 segment is in the host memory.” *See* Dkt. No. 375 (Claim Construction Order) at 21. Finally, the
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1 adapter receives the segment from the host using “circuitry that downloads data corresponding to
 2 the frame segment descriptor.” *Id.* The goal is to increase transmission speed and to optimize
 3 performance of network interfaces, again without the need for a faster and more expensive host or
 4 NIC processor. *Id.*

5 **II. Realtek’s Infringing Products**

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The parties have agreed that the term “network interface adapter” means
 “equipment between a computer and a network for enabling communication.” Dkt. No. 327
 (Revised Joint Claim Construction and Prehearing Statement Pursuant to Patent Local Rule 4-3,
 filed March 10, 2006) (the “RJCCS”), at 6. It is undisputed that each of the accused Realtek
 products is an integrated circuit that comprises such equipment and is, accordingly, a network
 interface adapter under the agreed-upon definition of that term.

⁶ See Mitzenmacher Decl. Ex. 9 (listing Fast Ethernet Products). Realtek’s expert witness, Dr. Izhak Rubin, refers to these products in his Expert Report as the “Group I and II Products.” Cole Decl. Ex. 9 (Rubin Report) ¶ 54.

⁷ See Mitzenmacher Decl. Ex. 9 (listing Descriptor-Based Products). Dr. Rubin refers to these products in his Expert Report as the “Group II-V products.” Rubin Report ¶ 54.

⁸ With respect to claim 1 of the ‘459 Patent, 3Com does not seek summary judgment concerning the Products. In the context of the ‘459 Patent only, the term “Descriptor-Based Products” used herein excludes the

ARGUMENT

I. Legal Standards

A. 3Com is Entitled to Summary Judgment Based on Realtek's Admissions

Summary judgment is appropriate when there is no genuine issue as to any material fact and the moving party is entitled to judgment as a matter of law. FED. R. CIV. P. 56(c); *see Anderson v. Liberty Lobby, Inc.*, 477 U.S. 242, 247–50 (1986); *Mitutoyo Corp. v. Cent. Purchasing, LLC*, 499 F.3d 1284, 1289 (Fed. Cir. 2007) (upholding a finding of summary judgment of patent infringement). The Federal Circuit has recognized that the law governing summary judgment is well established and that summary judgment is as appropriate in a patent case as it is in any other. *Desper Prods. v. QSound Labs.*, 157 F.3d 1325, 1332 (Fed. Cir. 1998), citing *C.R. Bard, Inc. v. Advanced Cardiovascular, Inc.*, 911 F.2d 670, 672 (Fed. Cir. 1990); *see also Rohm & Haas Co. v. Brotech Corp.*, 127 F.3d 1089, 1092 (Fed. Cir. 1997) (“[p]arties have available in patent cases, however, discovery procedures, partial or complete summary judgment, and evidentiary rules to narrow the issues for trial”); *Avia Group Int’l, Inc. v. L.A. Gear Cal., Inc.*, 853 F.2d 1557, 1561 (Fed. Cir. 1988). (“[S]ummary judgment is as appropriate in a patent case as in any other.”) A party requesting summary judgment may rely on pleadings, admissions, answers to interrogatories and depositions to show the absence of a genuine issue of material fact. *Celotex Corp. v. Catrett*, 477 U.S. 317, 323 (1986). “Summary judgment is appropriate if the pleadings, depositions, answers to interrogatories and admissions on file, together with the affidavits, if any, show that there is no genuine issue as to any material fact and that the moving party is entitled to a judgment as a matter of law.” *Hayden v. Redwoods Cmty. College Dist.*, Cv-05-01785, 2007 WL 61886, at *8 (N.D. Cal. 2007 Jan. 8, 2007); *see also Torres v. Cantine Torresella S.r.l.*, 808 F.2d 46, 49 (Fed. Cir. 1986) (upholding grant of summary judgment based on responses to requests for admission); *Sarah Z. v. Menlo Park City Sch. Dist.*, Cv-06-4098, 2007 WL 1574569, at *8 (N.D. Cal. May 30, 2007) (granting of summary judgment based on responses to requests for admission).

B. Standard for Finding Infringement

1. Direct Infringement

A defendant directly infringes a patent claim if it makes, uses, offers for sale, or sells within or imports into the United States a product that contains or practices each claim element. 35 U.S.C. § 271(a) (2004). With regard to 3Com's apparatus Claims in Issue (claim 21 of the '872 Patent and claim 1 of the '459 Patent), 3Com need not prove that the infringing capabilities of Realtek's accused products have, in fact, ever been used. As the Federal Circuit held in *Intel Corp. v. United States Int'l Trade Comm'n*, 946 F.2d 821 (Fed. Cir. 1991), "infringement of an apparatus claim is based solely on the presence of structural limitations and not functional limitations." *See also 3Com Corporation v. D-Link Systems, Inc.*, No. C 05-00098-VRW, slip op. at 18–19 (N.D. Cal. filed Dec. 18, 2006) (relying on *Intel* to reject D-Link's argument that its products could not literally infringe 3Com's apparatus claim because they lacked software drivers that actually utilized their infringing logic).

2. Inducement

In addition to direct infringement, a device may also infringe a patent indirectly. This can take the form of contributory infringement, 35 U.S.C. § 271(c) (2004), or inducement, 35 U.S.C. § 271(b) (2004). Under Section 271(b), "[w]hoever actively induces infringement of a patent shall be liable as an infringer." *Id.* With regard to 3Com's method Claims in Issue (claim 28 of the '094 Patent and claim 26 of the '446 Patent), inducement can be established by proof of direct infringement by the device's users, together with a showing of Realtek's intent to induce infringement. *See, e.g., Hewlett-Packard Co. v. Bausch & Lomb Inc.*, 909 F.2d 1464, 1469 (Fed. Cir. 1990) ("[P]roof of actual intent to cause the acts which constitute the infringement is a necessary prerequisite to finding active inducement."). 3Com may prove such intent through circumstantial evidence. *See Water Techs. v. Calco, Ltd.*, 850 F.2d 660, 668 (Fed. Cir. 1988) (noting that "circumstantial evidence may suffice" in proving intent under an inducement theory); *see also Moleculon Research Corp. v. CBS, Inc.*, 793 F.2d 1261, 1272 (Fed. Cir. 1986) (holding that "direct evidence of a fact is not necessary" and that "circumstantial evidence is not only

sufficient, but may also be more certain, satisfying and persuasive”).

Moreover, to prove direct infringement, 3Com need not proffer evidence of individual infringing acts by Realtek’s customers. *See, e.g., Metabolite Labs. v. Lab. Corp. of Am.*, 370 F.3d 1354, 1364 (Fed. Cir. 2004) (“To support the verdict, the record does not need to contain direct evidence that every physician performed the [infringing method].”). Rather, “where a plaintiff alleges inducement based on a defendant’s customers as a class, broader theories of liability are appropriate and the court may consider circumstantial evidence of direct infringement.” *Semiconductor Energy Lab. Co. v. Chi Mei Optoelectronics Corp.*, Cv-04-04675, 2007 WL 1793770, at *21 (N.D. Cal. June 19, 2007). 3Com can therefore meet its burden by identifying a category of direct infringers, such as Realtek’s customers or importers, and prove direct infringement by circumstantial evidence concerning that class. *See Rackable Sys., Inc. v. Super Micro Computer, Inc.*, Cv-05-3561, 2007 WL 1223807, *10 (N.D. Cal Apr. 25, 2007) (citing *Dynacore Holdings Corp. v. U.S. Phillips Corp.*, 363 F.3d 1263, 1274–75 (Fed. Cir. 2004)).

II. Realtek’s Infringement

A. Realtek’s Fast Ethernet Products and Descriptor-Based Products Infringe at least Claim 21 of the ‘872 Patent and Claim 28 of the ‘094 Patent

1. Realtek Has Admitted Infringement of Claim 21 of the ‘872 Patent

Realtek admits that the Fast Ethernet Products and Descriptor-Based Products contain each and every element of claim 21 of the ‘872 Patent. *See* Appendix B hereto. In response to Requests for Admission served by 3Com, Realtek admitted that these products include the buffer memory, data transfer circuitry, and medium access controller elements of this apparatus claim. *See* Cole Decl. Ex. 10 (Realtek’s RFA Responses) at Nos. 11, 29, 120 (admitting that “each REALTEK ACCUSED PRODUCT⁹ includes [each of these three elements], as claimed in claim 21 of the ‘872 Patent”); *see also* Mitzenmacher Decl. ¶¶ 51–52, 55 & Ex. 3.

⁹ The term “REALTEK ACCUSED PRODUCT,” as defined by Realtek in its general objections and statements in its RFA Responses, includes each of the Fast Ethernet Products and Descriptor-Based Products.

1 Realtek has further admitted that “each REALTEK ACCUSED PRODUCT” also
 2 includes the required element of “logic, coupled to the buffer memory, which monitors the
 3 transferring of data of a frame to the buffer memory to make a threshold determination of an
 4 amount of data of the frame transferred to the buffer memory.” Cole Decl. Ex. 10 (Realtek’s RFA
 5 Responses) at No. 73. Although Realtek subsequently purported to withdraw this admission by
 6 serving amended RFA responses,¹⁰ it has never sought leave to do so, as the Federal Rules plainly
 7 require. *See* FED. R. CIV. P. 36(b) (“Any matter admitted under this rule is conclusively
 8 established unless the court on motion permits withdrawal or amendment of the admission.”).¹¹
 9 Thus, its original admission stands and this element of claim 21 is not in genuine dispute. *See*
 10 Mitzenmacher Decl. ¶¶ 53–54.

11 The final element of claim 21 requires “logic, responsive to the threshold
 12 determination ... which initiates transmission of the frame ... prior to transfer of all of the data of
 13 the frame to the buffer memory.” Cole Decl. Ex. 4 (‘872 Patent), claim 21. However, Dr. Rubin’s
 14 Expert Report makes clear that Realtek disputes this element only because it refers to the logic for
 15 making a “threshold determination” recited in the previous element, which Dr. Rubin opines is
 16 absent in Realtek’s products. *See* Rubin Report ¶ 130 (“Because the required threshold
 17 determination is not made in Realtek’s controllers, the claimed means or logic responsive to the
 18 threshold determination for initiating transmission of frame cannot be present in Realtek’s
 19 controllers.”). Dr. Rubin’s opinion simply ignores Realtek’s prior admission that its products do,
 20 in fact, contain the required logic for making a “threshold determination.” His opinion concerning
 21

22 ¹⁰ Realtek served its purported amended responses in the middle of the night on August 20,
 23 2007, between sessions of the continued deposition of Jen-Che Tsai, its corporate designee
 24 on technical hardware issues. *See* Cole Decl. Ex. 11 (Email from Yang to McCloskey).
 25 That deposition itself was the result of an order of this Court requiring Realtek to produce
 its corporate witnesses in the United States for further deposition, after Realtek belatedly
 produced its hardware code, emails and other critical information. Dkt. No. 391 (Order,
 dated Mar. 27, 2007).

26 ¹¹ Realtek’s failure to move this Court for leave to serve amended responses is all the more
 27 inexcusable in light of the fact that 3Com immediately objected to Realtek’s purported
 28 amendment, specifically citing the requirements of Rule 36(b) and informing Realtek that
 “3Com will rely on your original Responses and Objections unless and until instructed
 otherwise by the court.” Cole Decl. Ex. 12 (Letter from Konrad to Yang).

1 this element must therefore be disregarded and 3Com's showing that this element is present stands
 2 un rebutted. *See* Mitzenmacher Decl. ¶¶ 56–57. Accordingly, 3Com is entitled to summary
 3 judgment of infringement of claim 21 of the '872 Patent based upon Realtek's admission that the
 4 Fast Ethernet Products and Descriptor-Based Products contain each and every element of the
 5 claim.¹²

6 **2. Realtek Has Admitted Its Fast Ethernet Products Are Capable of**
 7 **Practicing the Method of Claim 28 of the '094 Patent**

8 Claim 28 of the '094 Patent is a method claim containing three elements or steps.
 9 *See* Appendix C hereto. Realtek has admitted that the Fast Ethernet Products are capable of
 10 practicing each step of the claimed method. First, Realtek admits that each of the REALTEK
 11 ACCUSED PRODUCTS is "capable of transferring data of a frame, as claimed in claim 28 of the
 12 '094 Patent." Cole Decl. Ex. 10 (Realtek's RFA Responses) at No. 35; *see also* Mitzenmacher
 13 Decl. ¶ 60 & Ex. 4.

14 Second, Realtek has admitted that each of the Fast Ethernet Products is also
 15 "capable of monitoring the transfer of the data of the frame . . . to make a threshold determination
 16 of an amount of data of the frame transferred," as claimed in claim 28 of the '094 Patent. Cole
 17 Decl. Ex. 10 (Realtek's RFA Responses) at No. 82; *see also* Mitzenmacher Decl. ¶ 61 & Ex. 4.
 18 Although Realtek also purported to withdraw or amend this admission without leave of Court, that
 19 effort is unavailing for the reasons set forth above.

20 Third, Realtek has admitted that "each REALTEK ACCUSED PRODUCT is

21 ¹² Should the Court, in its discretion, grant Realtek belated leave to withdraw or amend its
 22 original RFA responses, 3Com seeks leave to address Realtek's revised position in further
 23 support of this motion. We understand that Realtek contends that the Fast Ethernet
 Products do not infringe because

24 . *See, e.g.,* Cole Decl. Ex. 9 (Rubin Report) at ¶¶ 50, 76, 79, 122. As we
 25 are prepared to demonstrate in greater detail if necessary, this is a distinction without a
 difference for these purposes,

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26 *See Elantech Devices Corp.*
 27 *v. Synaptics, Inc.*, Cv-06-01839, 2007 WL 3256229, at *3–*4 (N.D. Cal. Nov. 5, 2007)
 28 (noting that defendants cannot escape literal infringement by simply transforming the
 measured value).

capable of initiating CSMA/CD transmission of the FRAME of data in [a] BUFFER MEMORY . . . to a network TRANSCEIVER in response to [a] THRESHOLD DETERMINATION . . . prior to transfer of all the data of the FRAME from the host system to the BUFFER MEMORY . . .” Cole Decl. Ex. 10 (Realtek’s RFA Responses) at 102; *see also* Mitzenmacher Decl. Ex. 4. Even accepting Realtek’s purported withdrawal of this admission, this element would only be in dispute because it refers to the making of a “threshold determination” as described in the previous element, which Realtek also admitted but now improperly seeks to deny. *See* Rubin Report ¶ 145 (“The missing steps for initiating transmission . . . is not present in Realtek’s 8139 and 8169 controllers for the same reasons as those stated above for the missing means for monitoring.”); *see also id.* at ¶ 130 (“Because the required threshold determination is not made in Realtek’s controllers, the claimed means or logic responsive to the threshold determination for initiating transmission of frame cannot be present in Realtek’s controllers.”).¹³ Thus, there is no genuine dispute that the Fast Ethernet Products are capable of practicing the method of claim 28 of the ‘094 Patent.

3. The Fast Ethernet Products Practice the Method of Claim 28 of the ‘094 Patent Whenever They are Used with Drivers Implementing the Early Transmit Feature

The Fast Ethernet Products include the circuitry covered by claim 21 of the ‘872 Patent.

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¹³ Again, Realtek’s argument for avoiding infringement apparently rests entirely on its belated theory that claim 28 is somehow limited to

1 Software drivers designed to work with Microsoft Windows operating systems
2 typically include an executable driver file or files, which are compiled from source code, and a
3 separate driver information file, or .INF file. *Id.* The .INF file controls which options will be
4 displayed to users in the Windows Device Manager dialog box, as well as the default values
5 associated with those options. *Id.*

6 Realtek has provided numerous software drivers for use with the Fast Ethernet
7 Products during the course of its infringement, with different default settings and threshold values.
8 For example, Version 3.97 of its Windows driver, under a configuration typical for these products,
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25 Moreover, Dr. Mitzenmacher tested several products incorporating Fast Ethernet
26 Products with the drivers provided with those products, and found that the “Optimal Performance”
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28 ¹⁴ The threshold value is expressed in 32-byte units. Mitzenmacher Decl. Ex. 4.

property was set to “enable” by default in several of the drivers tested. Mitzenmacher Decl. ¶¶ 73–80 & Ex. 7; *see also* Cole Decl. Ex. 13 (Hsu Tr.) at 212. Each Fast Ethernet Product tested was therefore configured by default to initiate early transmission, thereby falling within the scope of claim 28 of the ‘094 Patent.

4. Realtek Induces End-Users to Practice the Methods of Claim 28 of the ‘094 Patent in the United States

Realtek has actively induced infringement of claim 28 of the ‘094 Patent in the United States. To begin with, there is no genuine dispute that Realtek sells or offers to sell the Fast Ethernet Products in the United States. *See* Cole Decl. Ex. 3 (Tsai, B. Tr.) at III:50–51. Moreover, as demonstrated above, Realtek has provided and continues to provide software drivers for use with the Fast Ethernet Products that will, by default, cause the practice of the patented method. “[A]n adapter infringes if it includes [the claimed logic], regardless whether such logic is enabled or used.” *D-Link*, slip op. at 20. Here, the infringing method is activated by default in numerous drivers supplied by Realtek.

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Courts have frequently held that evidence of sales of a product, along with instructions or manuals teaching the infringing method, will suffice to show direct infringement by customers. *See, e.g., Semiconductor Energy*, 2007 WL 1793770, at *21 (quoting *Moleculon*, 793 F.2d at 1272 (“[C]ircumstantial evidence of extensive puzzle sales, dissemination of an instruction sheet teaching the method of restoring the preselected pattern with each puzzle, and the availability of a solution booklet on how to solve the puzzle’ were sufficient to meet the plaintiff’s burden of showing infringement by purchasers of the infringing puzzles under section 271(b).”). In this case, it is unnecessary for 3Com to show that Realtek provided instructions for use of the device in an infringing manner, since the ordinary or default use of the device with the driver with which it is supplied will necessarily result in infringement.¹⁵ For this reason alone, there can be no

¹⁵ Evidence that shows that a device infringes a method when used in its default configuration is especially persuasive circumstantial evidence. *See Golden Blount, Inc. v.*

genuine issue of fact that Realtek has intentionally and actively induced the practice of the patented method in the United States, and 3Com is accordingly entitled to summary judgment of infringement of claim 28 of the '094 Patent.

B. Realtek's Fast Ethernet Products Infringe Claim 1 of the '459 Patent

The apparatus claimed in claim 1 of the '459 Patent includes four structural elements. Realtek admits that each of the Fast Ethernet Products and Descriptor Based Products includes three of these elements. *See* Appendix D; Cole Decl. Ex. 10 (Realtek's RFA Responses) at Nos. 6, 22, 113 (admitting to the presence of the buffer memory, network interface logic and host interface logic in each of the Fast Ethernet Products and Descriptor-Based Products); *see also* Mitzenmacher Decl. ¶¶ 39–42. The only disputed element concerns the required “threshold logic,” which includes three sub-elements: a counter, an alterable storage location, and means for comparing the two and generating an indication signal. *See* '459 Patent 42:59–68. As we demonstrate below, the Fast Ethernet Products and Descriptor-Based Products include each of these claimed sub-elements.

1. Counter

The first is “a counter, coupled to the buffer memory, for counting the amount of data transferred to or from the buffer memory.” Realtek admits that each of the Fast Ethernet Products includes this element. *See* Appendix D; Cole Decl. Ex. 10 (Realtek's RFA Responses) at No. 47.

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Robert H. Peterson Co., 438 F.3d 1354, 1363 (Fed. Cir. 2006) (affirming finding of direct infringement by customers on the grounds that the “instructions packaged with each device teach the infringing configuration and nothing in the record suggests that . . . any end-user ignored the instructions or assembled the burners in a manner contrary to the instructions so as to form a non-infringing configuration.”).

2. Alterable Storage Location

The second sub-element of the claimed threshold logic is an “alterable storage location containing a threshold value.” Realtek admits that each of the Fast Ethernet Products includes this element. *See* Appendix D; Cole Decl. Ex. 10 (Realtek’s RFA Responses) at No. 55.

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3. Means for Comparing and Generating

The third and final sub-element of the threshold logic is “means for comparing the counter to the threshold value in the alterable storage location and generating an indication signal

¹⁶ To the extent that the Court feels it necessary to engage in further claim construction to determine whether the words “counting the amount of data,” as used in the ‘459 Patent, should take their ordinary English meaning and do not specify any particular unit of measurement, the Court is free to do so in connection with this motion. *See Markman v. Westview Instruments, Inc.*, 52 F.3d 967 982 (Fed. Cir. 1995) (“[Pronouncing the meaning of the claim language] can be accomplished by the court in framing its charge to the jury, but may also be done in the context of dispositive motions such as those seeking judgment as a matter of law.”); *see also Am. Permahedge, Inc. v. Barcana, Inc.*, 105 F.3d 1441, 1444–45 (Fed. Cir. 1997) (using a motion for summary judgment as an appropriate forum for resolving the disputed construction of a claim term); *Berger v. Rossignol Ski Co., Inc.*, No. Cv-05-02523-CRB, 2006 WL 708943, at *2 (N.D. Cal. Mar. 21, 2006) (citing *Markman*, 52 F.3d at 981) (“[T]he court has discretion to construe claims, if needed, in the context of a summary judgment motion.”).

1 to the host processor responsive to a comparison of the counter and the alterable storage location.”
2 Mitzenmacher Decl. ¶¶ 47–48 & Ex. 2. Because this element is a “means-plus-function” element
3 under 35 U.S.C. § 112 ¶ 6, the claim covers comparing and generating structures disclosed in the
4 specification and their equivalents. Dkt. No. 375 (Order on Claim Construction) at 18–19. Both
5 Realtek and 3Com have identified numerous bit comparators, or examples of threshold logic based
6 on bit comparators, disclosed in the ‘459 Patent as corresponding to the claimed “means.” *See*
7 Dkt. No. 338 (Amended Final Joint Claim Construction and Prehearing Statement, filed March 31,
8 2006) 52–53. All of the bit comparators disclosed in the specification generate an output when the
9 value of one multi-bit input is equal to or greater than the value of the other multi-bit input. *See*
10 Mitzenmacher Decl. ¶¶ 47–48 & Ex. 2. Returning to the claim language, the question is whether
11 the Fast Ethernet Products also include a bit comparator for comparing the counter to the threshold
12 value and generating an indication signal.

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5 The various components of this threshold logic are capable of allowing the host
6 processor to respond to the indication signal *during* the transferring of the data frame.
7 Mitzenmacher Decl. Ex. 2. If the threshold value is less than the number of bytes of the frame
8 being transferred, an indication signal will be generated when that threshold is reached as the data
9 frame is transferred. *Id.* And regardless of the actual threshold value used in any particular
10 implementation, the Fast Ethernet Products and Descriptor-Based Products always include
11 threshold logic capable of its intended purpose. *Id.*
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19 **C. Realtek's Descriptor-Based Products Infringe Apparatus Claim 21 of the '872**
20 **Patent and Apparatus Claim 1 of the '459 Patent**

21 It is undisputed that Realtek's Descriptor-Based Products include all the infringing
22 circuitry included in the Fast Ethernet Products. Rubin Report at ¶ 54. Moreover, unlike the Fast
23 Ethernet Products,

24 . *Id.* Realtek will no doubt contend that the Descriptor-Based Products do not infringe
25 the '872 or '459 Patents because the drivers supplied with these products do not utilize the
26 infringing circuitry. Assuming, *arguendo*, the factual truth of such an assertion, Realtek cannot
27 ignore the well-established legal principle that an apparatus claim is infringed as soon as a device
28 containing all the elements of the claim is sold, offered for sale or imported into the United States;

no actual use is required. *See D-Link*, slip op. at 20 (citing *Fantasy Sports Props. v. Sportsline.com, Inc.*, 287 F.3d 1108 (Fed. Cir. 2002)). Thus, there is no genuine dispute that the Descriptor-Based Products infringe at least claim 21 of the '872 Patent and claim 1 of the '459 Patent, and summary judgment is appropriate as a matter of law.

D. Realtek's Descriptor-Based Products Infringe Claim 26 of the '446 Patent

1. Each of the Descriptor-Based Products is Capable of Practicing the Method of Claim 26

Claim 26 of the '446 Patent is a method claim comprising three steps for achieving the patented TCP frame segmentations. *See* Appendix E. Realtek admits that each of the Descriptor-Based Products is capable of practicing the first step, namely "receiving from a host device a descriptor signal which corresponds to data stored within memory," subject to its objection to the Court's construction of the term "descriptor signal which corresponds to data stored within memory" as "a signal indicating where the corresponding data is in host memory." *Id.*; Cole Decl. Ex. 10 (Realtek RFA Responses) at No. 146; *see also* Dkt. No. 375 (Claim Construction Order) at 22; Mitzenmacher Decl. ¶¶ 68–70 & Ex. 5. Nor does Realtek dispute that the Descriptor-Based Products also employ a data download circuit for receiving data from the host, as the third step requires. Rather, Realtek denies that its products perform this step only on the grounds that "Realtek products cannot download data corresponding to a frame segment descriptor because no such descriptor is produced in Realtek products." Rubin Report ¶ 162. Thus, the only claim element actually in dispute is the second step, namely "using said descriptor signal to generate a frame segment descriptor using a segmentation circuit." Rubin Report ¶ 162.

The issue here is _____ constitutes the required "frame segment descriptor" under the Court's construction. There is no genuine issue concerning the functionality of the Descriptor-Based Products.

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20 **MOTION FOR SUMMARY JUDGMENT OF INFRINGEMENT**
CASE No. CV-032177-VRW

1 there can be no genuine issue that Realtek actively induces the practice of this patented method in
2 the United States.

3 **CONCLUSION**

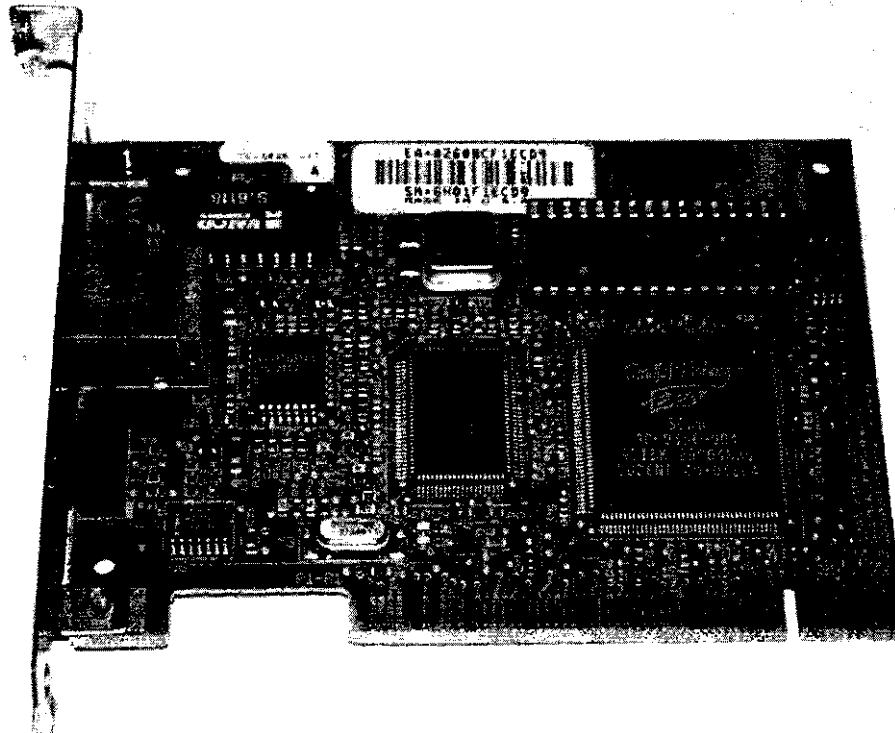
4 For the foregoing reasons, 3Com respectfully requests that the Court enter an order
5 granting 3Com's Motion for Summary Judgment of Infringement of claim 21 of U.S. Patent No.
6 5,434,872; claim 28 of U.S. Patent No. 5,732,094; claim 1 of U.S. Patent No. 5,307,459; and
7 claim 26 of U.S. Patent No. 6,526,446.

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9 Dated: November 16, 2007

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11 SIMPSON THACHER & BARTLETT LLP

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13 By /s/ Henry B. Gutman
14 Henry B. Gutman
15 Attorneys for 3Com Corporation
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APPENDIX A



Source: Wikipedia, *Fast Ethernet*, http://en.wikipedia.org/wiki/Fast_Ethernet (as of Nov. 16, 2007).

APPENDIX B

Claim 21 of the '872 Patent recites:	Realtek's position on whether its Fast Ethernet Products include this claim element
A network interface adapter for a carrier sense, multiple access network with collision detection (CSMA/CD), comprising:	
buffer memory which stores data of frames composed by a host computer for transmission on the network;	Admitted. RFA Resp. No. 11.
data transfer circuitry, having a host system interface, for transferring data of frames to the buffer memory;	Admitted. RFA Resp. No. 29.
logic, coupled to the buffer memory, which monitors the transferring of data of a frame to the buffer memory to make a threshold determination of an amount of data of the frame transferred to the buffer memory;	Admitted (subsequently withdrawn without leave). RFA Resp. No. 73.
a medium access controller for the CSMA/CD network coupled to the buffer memory for managing transmission of frames of data from the buffer memory to the network; and	Admitted. RFA Resp. No. 120.
logic, responsive to the threshold determination of the logic which monitors the transferring of data to the buffer memory, which initiates transmission of the frame from the buffer memory to the medium access controller prior to transfer of all of the data of the frame to the buffer memory, including logic which initiates transmission of the frame when no complete frame of data is present in the buffer memory.	Disputed only on the grounds that the "logic . . . which monitors the transferring of data" element is disputed.

APPENDIX C

Claim 28 of the '094 Patent Recites:	Realtek's position on whether its Fast Ethernet Products practice this claim step
A method of controlling communication of data from a host system to a network transceiver coupled to a carrier sense, multiple access with collision detection (CSMA/CD) computer network, comprising:	
transferring data of a frame from the host system to a buffer memory;	Admitted. RFA Resp.Nos. 20, 35.
monitoring the transfer of the data of the frame to the buffer memory to make a threshold determination on an amount of data of the frame transferred to the buffer memory; and	Admitted (subsequently withdrawn without leave). RFA Resp.No. 82.
initiating CSMA/CD transmission of the frame of data in the buffer memory to the network transceiver in response to the threshold determination prior to transfer of all the data of the frame from the host system to the buffer memory.	Admitted (subsequently disputed only on the grounds that the "monitoring the transfer of the data" element is disputed.). RFA Resp.No. 102.

APPENDIX D

Claim 1 of the '459 Patent Recites:	Realtek's position on whether its Fast Ethernet Products include this claim element
An apparatus for transferring a data frame between a network transceiver, coupled with a network, and a host system which includes a host processor and host memory, the apparatus generating an indication signal to the host processor responsive to the transfer of the data frame, with the host processor responding to the indication signal after a period of time, comprising:	
a buffer memory for storing the data frame;	Admitted. RFA Resp. No. 6.
network interface logic for transferring the data frame between the network transceiver and the buffer memory;	Admitted. RFA Resp. No. 113.
host interface logic for transferring the data frame between the host system and the buffer memory;	Admitted. RFA Resp. No. 22.
threshold logic for allowing the period of time for the host processor to respond to the indication signal to occur during the transferring of the data frame, wherein the threshold logic includes,	Disputed.
a counter, coupled to the buffer memory, for counting the amount of data transferred to or from the buffer memory;	Admitted (subsequently withdrawn without leave). RFA Resp. No. 47.
an alterable storage location containing a threshold value; and	Admitted (subsequently withdrawn without leave). RFA Resp. No. 55.
means for comparing the counter to the threshold value in the alterable storage location and generating an indication signal to the host processor responsive to a comparison of the counter and the alterable storage location.	Disputed

APPENDIX E

Claim 26 of the '446 Patent recites: A method for implementing transmission control protocol segmentation within hardware, said method comprising the hardware implemented steps of:	Realtek's position on whether its Descriptor-Based Products practice this claim step
(a) receiving from a host device a descriptor signal which corresponds to data stored within memory;	Admitted. RFA Resp. No. 146.
(b) using said descriptor signal to generate a frame segment descriptor using a segmentation circuit; and	Disputed.
(c) receiving said data from said memory using a data download circuit.	Disputed only to the extent step (b) is disputed.